

Title (en)  
ENHANCEMENT OF SPATIAL AUDIO SIGNALS BY MODULATED DECORRELATION

Title (de)  
VERBESSERUNG VON RÄUMLICHEN AUDIOSIGNALEN DURCH MODULIERTE DEKORRELATION

Title (fr)  
AMÉLIORATION DE SIGNAUX AUDIO SPATIAUX PAR DÉCORRÉLATION MODULÉE

Publication  
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Application  
**EP 22170424 A 20160302**

Priority

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- US 201662298905 P 20160223
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- EP 16718934 A 20160302

Abstract (en)

Some methods involve receiving an input audio signal that includes N input audio channels, the input audio signal representing a first soundfield format having a first soundfield format resolution, N being an integer  $\geq 2$ . A first decorrelation process may be applied to two or more of the input audio channels to produce a first set of decorrelated channels, the first decorrelation process maintaining an inter-channel correlation of the set of input audio channels. A first modulation process may be applied to the first set of decorrelated channels to produce a first set of decorrelated and modulated output channels. The first set of decorrelated and modulated output channels may be combined with two or more undecorrelated output channels to produce an output audio signal that includes O output audio channels representing a second and relatively higher-resolution soundfield format than the first soundfield format, O being an integer  $\geq 3$ .

IPC 8 full level  
**G10L 19/008** (2013.01)

CPC (source: CN EP US)  
**G10L 19/008** (2013.01 - CN EP US); **H04S 3/008** (2013.01 - CN US); **H04S 2400/11** (2013.01 - CN EP)

Citation (applicant)  
EP 19172220 A 20160302

Citation (search report)

- [A] WO 2011090834 A1 20110728 - DOLBY LAB LICENSING CORP [US], et al
- [A] EP 2830333 A1 20150128 - FRAUNHOFER GES FORSCHUNG [DE], et al
- [A] US 2009240503 A1 20090924 - MIYASAKA SHUJI [JP], et al

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DOCDB simple family (publication)  
**WO 2016141023 A1 20160909**; CN 107430861 A 20171201; CN 107430861 B 20201016; CN 112002337 A 20201127; EP 3266021 A1 20180110; EP 3266021 B1 20190508; EP 3611727 A1 20200219; EP 3611727 B1 20220504; EP 4123643 A1 20230125; EP 4123643 B1 20240619; ES 2922373 T3 20220914; JP 2018511213 A 20180419; JP 2020005278 A 20200109; JP 2021177668 A 20211111; JP 6576458 B2 20190918; JP 6926159 B2 20210825; JP 7321218 B2 20230804; US 10210872 B2 20190219; US 10593338 B2 20200317; US 11081119 B2 20210803; US 11562750 B2 20230124; US 2018018977 A1 20180118; US 2019180760 A1 20190613; US 2020273469 A1 20200827; US 2022028400 A1 20220127; US 2023230600 A1 20230720

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